Documentation

Scientific paper structure

Abstract

Introduction / Background / Motivation / Context

Problem statement

Solution/Proposal/Method/Methodology

Experiments

Conclusion

Future work

Abstract

Challenge/problem

How is the experimentation done

Most important results

Conclusion

Between 150-200 words length (usually)

Introduction / Background / Motivation

Context (e.g. benchmarking of programming languages)

If necessary, make a briefly explanation of the topics involved

Review on how other authors are doing the same task

Last paragraph should mention what is done in this paper and the added value of this contribution

Problem statement

If introduction is too big, an interesting way to split the context description is to split the content in two parts: introduction and problem statement

It is also interesting if you want to center the focus of the reader when the problem is complex to be told in the introduction

Solution / Proposal / Method / Methodology

This section may be named differently depending on the type of contribution. Explain here how are you going to proceed to deal with the problem stated. Think that the reader should be able to **reproduce** them

E.G. For the matrix multiplication problem we should explain which experiments we will run, in which machine, how we are going to measure the performance (e.g. speed up indicator), how we are going to configure the experiments…

Experiments

Describe all the experiments done and explain the obtained results. Consider:

- Use correct punctuation for decimal numbers (e.g. 2.2)
- Charts can be perfectly seen without doing any zoom
- All data shown have the unit (e.g. times expressed in seconds)
- Be consistent in how you present each experiment
- Tables must have header
- All figures must be referenced in the text

Conclusions

Recap all that was written: problem/challenge that is faced, how is the solution/proposal/method/methodology you have used, main results, discuss about results…

As you are “selling” your research, you should indicate why is so important the experimentation you’re doing

Future work

Here you will mention what can be done after this experimentation. This is also a “protection shield” where you are going to place the things you know you missed in your experimentation.

E.G. Let’s try different implementations of the matrix multiplication. Let’s try other kind of algorithm…

To avoid

Big sentences

One-sentence paragraph

Section with one paragraph

Section with only one subsection